## Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

## Listing of Claims

- 1. 12. (Canceled)
- 13. (Currently Amended) A system, comprising:
  - a chamber configured to process one or more wafers for the fabrication of microelectronic devices, wherein the chamber comprises a fluid inlet configured to:
    - receive a process fluid from at least one of a plurality of tanks serially coupled to the chamber; and

supply the process fluid to the one or more wafers;

a-the plurality of tanks, cach serially coupled to the chamber and adapted to store a the process fluid used to treat the wafers, wherein one tank of the plurality of tanks comprises comprises:

a storage tank configured to hold the process fluid; and

an intermediate tank interposed between the chamber and the storage tank,

wherein the intermediate tank has a larger volume capacity than the

chamber and a smaller volume capacity than the storage tank; another tank

of the plurality of tanks, and wherein the chamber comprises a fluid inlet

configured to:

receive the process fluid from at least one of the plurality of tanks; and supply the process fluid to the one or more wafers;

- a plurality of temperature controllers positioned within the system such that the chamber and the plurality of tanks are characterized into at least three different zones based upon adaptations of the temperature controllers to maintain the process fluid within distinct temperature ranges in the respective zones while processing the wafers: and
- a plurality of volume sensors positioned within the plurality of tanks such that the chamber and the plurality of tanks are further characterized into the at least three different zones based upon adaptations of the volume sensors to maintain different volumes of the process fluid in the respective zones.
- 14. (Original) The system of claim 13, wherein the plurality of temperature controllers are positioned such that the at least three different zones are arranged in ascending order based upon their respective temperature ranges, and wherein the zone comprising the chamber has the highest temperature range.
- 15. (Original) The system of claim 13, wherein the plurality of temperature controllers are positioned such that the at least three different zones are arranged in descending order based upon their respective temperature ranges, and wherein the zone comprising the chamber has the lowest temperature range.
- 16. (Original) The system of claim 13, wherein one of the plurality of temperature controllers is arranged within the chamber.
- 17. (Previously Presented) The system of claim 13, wherein one of the plurality of temperature controllers is coupled to the fluid inlet.

- 18. (Previously Presented) The system of claim 13, wherein one of the plurality of temperature controllers is coupled to one of a plurality of pipes configured to transport the process fluid from the plurality of tanks to the chamber.
- 19. (Original) The system of claim 13, wherein one of the plurality of temperature controllers is arranged within one of the plurality of tanks.
- (Original) The system of claim 13, wherein at least one of the plurality of temperature controllers comprises an infrared heater.
- 21. 24. (Canceled)
- 25. (Previously Presented) The system of claim 13, wherein at least two of the plurality of tanks comprise different volume capacities relative to each other and relative to the chamber, and wherein the at least two tanks are arranged within different zones.
- 26. (Previously Presented) The system of claim 25, further comprising a plurality of pipes configured to transport the process fluid from the plurality of tanks to the chamber, wherein one tank of the at least two tanks is closer in proximity to the chamber with respect to the transport of the process fluid along the plurality of pipes than another tank of the at least two tanks.
- 27. (Currently Amended) A system, comprising:
  - a chamber configured to process one or more wafers for the fabrication of microelectronic devices:
  - a first set of one or more temperature controllers configured to maintain a process fluid supplied to the chamber to treat the wafers within a first temperature range;
  - a storage tank configured to hold the process fluid;

- an intermediate tank interposed between the chamber and the storage tank, wherein the intermediate tank is configured to store the process fluid, and wherein the intermediate tank has a larger volume capacity than the chamber and a smaller volume capacity than the storage tank;
- a second set of one or more temperature controllers configured to maintain the process fluid within the intermediate tank within a second temperature range distinct from the first temperature range;
- a first set of pipes configured to transport the process fluid from the storage tank to the intermediate tank:
- a set of valves coupled to the first set of pipes for circulating the process fluid between the storage tank and the intermediate tank, depending on an operating mode of the valves;
- a second set of pipes configured to transport the process fluid from the intermediate tank to the chamber, and
- a third set of pipes configured to transport the process fluid from the chamber directly to the intermediate tank
- 28. (Previously Presented) The system of claim 27, further comprising a third set of one or more temperature controllers configured to maintain the process fluid within the storage tank within a third temperature range distinct from the first and second temperature ranges, wherein the minimum temperature of the third temperature range is greater than an ambient temperature of an environment surrounding the storage tank.
- 29. (Previously Presented) The system of claim 27, wherein the first temperature range is higher than the second temperature range.

- 30. (Previously Presented) The system of claim 27, wherein the second temperature range is higher than the third temperature range.
- 31. (Previously Presented) The system of claim 27, wherein the first temperature range is lower than the second temperature range, and wherein the second temperature range is lower than the third temperature range.
- 32. (Previously Presented) The system of claim 27, further comprising volume sensors respectively configured to maintain different volumes of the process fluid within the intermediate tank and the chamber during operation of the system.